

FILYANSKAYA, Yelena Dmitriyevna; KOZLYAYEVA, Tat'yana Nikolayevna;
VOROKHOBIN, Ivan Grigor'yevich; DENISOVA, I.S., red.;
~~SHADRINA, N.D., tekhn.red.~~

[Linear colorimetric method of analyzing harmful gases and
vapors in the atmosphere of industrial enterprises] Lineino-
koloristicheskii metod analiza vrednykh gazov i parov v
vozdukh promyshlennyykh predpriyatii. Moskva, Izd-vo VTsSPS
Profizdat, 1958. 111 p. (MIRA 12:8)
(Gases--Analysis) (Colorimetry)

ARENDE, A.A., prof.; ARTARYAN, A.A., kand.med.nauk; BAIROV, G.A., prof.;
VOLKOV, M.V., prof.; VARSHAVSKAYA, D.Ya., kand. med. nauk;
VOROKHOBOV, L.A.; GENERALOV, A.I., kand. med. nauk;
DANIYEL'BEK, K.V., kand. med. nauk; DERZHAVIN, V.M., kand.
med. nauk; DOLETSKIY, S.Ya., prof.; YERMOLIN, V.N.; ZATSEPIN,
S.T., kand. med. nauk; ZVIAGINTSEV, A.Ye., dots.; ISAKOV, Yu.F.,
doktor med. nauk; KOZYREV, V.A., kand. med. nauk; KONOVALOV,
A.N.; KORNYANSKIY, G.P., prof.; KLIMANSKIY, V.A., kand. med.
nauk; KLIMKOVICH, I.G., dots.; KONDRASHIN, N.I., kand. med.
nauk; LEVINA, O.Ya., kand. med. nauk; LENYUSHKIN, A.I., kand.
med. nauk; LEYBZON, N.D., doktor med. nauk; MALININA, L.I.,
doktor med. nauk; MAREYEVA, T.G., kandidat meditsinskikh
nauk; NERSESYANTS, S.I., kand. med. nauk; OVCHINNIKOV, A.A.;
OGLEZNEV, K.Ya., kand. med. nauk; ROSTOTSKAYA, V.I., kand.
med. nauk; STEPANOV, E.A., kand. med. nauk; EPSHTEYII, P.V.;
OSTROVERKHOV, G.Ye., prof., glav. red.; DOMBROVSKAYA, Yu.F.,
prof., otv. red.

[Multivolume manual on pediatrics] Mnogotomnoe rukovodstvo po
pediatrii. Moskva, Meditsina. Vol.9. [Pediatric surgery] Khir-
urgiya detskogo vozrasta. Red.toma S.IA.Doletskii. 1964. 654 p.
(MIRA 17:9)

1. Deystvitel'nyy chlen AMN SSSR (for Dombrovskaya). 2. Chlen-
korrespondent AMN SSSR (for Bairov, Volkov).

VOROKHOBOV, L.A.; GAYDASHEV, E.A.

Bilateral facial coloboma in a child with multiple abnormalities.
Vop.okh.mat.1 det. 7 no.7:80 J1 '62. (MIRA 15:11)

1. Iz kliniki khirurgii detskogo vozrasta (zav. -- prof. I.K. Murashov) II Moskovskogo meditsinskogo instituta imeni N.I. Pirogova i Instituta pediatrii (dir. -- dotsent M.Ya.Studenikin) AMN SSSR.

(FACE--ABNORMITIES AND DEFORMITIES)
(DEFORMITIES)

VOROKHOBOV, L.A.

Organization of ambulatory pediatric traumatological services. Ortop.,
travm. i protex. 17 no.2:36-37 Mr-Apr '56. (MLPA 9:12)

1. Iz detskoy bol'nitsy im. N.F.Filatova (glavnyy vrach - M.N.Kalugina)
i kliniki detskoy khirurgii (zav, kafedroy - prof. S.D.Termovskiy)
2-go Moskovskogo meditsinskogo instituta im. I.V.Stalina.

(OUTPATIENT SERVICE,

traumatol. pediatric ambulatory serv. (Rus))

VOROKHOBOV, L.A.

Prolapse of the bladder through the urinary duct (urachus)
in a newborn infant. Vop. okh. mat. 1 det. 6 no.12:79 D '61.
(MIRA 15:3)

1. Iz Detskoy gorodskoy klinicheskoy bol'nitsy imeni prof.
N.F. Filatova (glavnyy vrach L.A. Vorokhobov), kliniki detskoy
khirurgii II Moskovskogo meditsinskogo instituta imeni N.I.
Pirogova (zav. kafedroy - prof. S.D. Ternovakiy [deceased]).
(BLADDER--DISPLACEMENT)

VOROKHOBOV, L.A.

Case of cardiospasm in a 5-year old child. Khirurgia no.6:103
Je '61. (MIRA 14:11)

1. Iz kliniki detskoy khirurgii (zav. - chlen-korrespondent AMN
SSSR zasluzhennyy deyatel' nauki RSFSR prof. S.D. Ternovskiy
[deceased]) II Moskovskogo gosudarstvennogo meditsinskogo insti-
tuta imeni N.I. Pirogova i detskoy klinicheskoy bol'nitsy imeni
prof. Filatova (glavnyy vrach L.A. Vorokhobov).
(CARDIOSPASM)

VOROKHOBOV, L.A.; KOSTOMAROVA, G.A.

Diagnosis and clinical aspects of acute appendicitis in infants.
Pediatriia 41 no.5:65-70 My '62. (MIRA 15:5)

1. Iz kliniki detskoy khirurgii (zav. - chlen-korrespondent
AMN SSSR prof. S.D. Ternovskiy [deceased]) II Moskovskogo
meditsinskogo instituta imeni N.I. Pirogova i Detskoy bol'nitsy
imeni N.F. Filatova (glavnyy vrach L.A. Vorokhobov).
(APPENDICITIS)

VOROKHOBOV, L. A.; PUGACHEV, A. G., kand. med. nauk

Surgical treatment of atresia of the anus and rectum in newborn infants. Khirurgia no.6:33-38 Je '62. (MIRA 15:7)

(ANUS--ABNORMITIES AND DEFORMITIES)
(RECTUM--ABNORMITIES AND DEFORMITIES)
(INFANTS(NEWBORN))

VERSILOVA, E.B.; VOROKHOBOV, L.A.; DERZHAVIN, V.M. (Moskva, Zh-384,
Moskovskaya ul. 120, kv.8)

Treatment of cryptorchism in children. Vest. khir. 92 no.4:
117-120. Ap '64. (MIRA 18:1)

1. Iz kliniki detskoy khirurgii (zav. - prof. I.K. Murashov)
2-go Moskovskogo meditsinskogo instituta imeni N.I. Pirogov
(rektor - doktor med. nauk M.G. Sirotkina) pri detskoy bol -
nitse imeni N.F. Filatova (glavnyy vrach - L.A. Vorokhobov).

VOROKHOBSKIY, A., mladshiy nauchnyy sotrudnik; MAKSIMADZHI, M.,
mladshiy nauchnyy sotrudnik

Merchant fleet of South American countries. Mor.flot 20 no.1:
38-39 Ja '60. (MIRA 13:5)

1. Tsentral'nyy nauchno-issledovatel'skiy institut morskogo flota.
(Latin America--Merchant marine)

VOROKHOBSKIY, A.Ya.

The English judicial system and the jurisdiction of English courts
in the examination of maritime conflicts. Inform.sbor.TSHIMF
no.34:67-71 '58. (MIRA 14:3)
(Great Britain--Courts) (Great Britain--Maritime law)

TERNOVSKIY, S.D.; VOROKHOBOV, L.A.; KOSTOMAROVA, G.A., (Moskva).

"Fractures in children [in German] by W. Blount. Reviewed by S.D. Ternovskii, L.A. Vorokhobov, G.A. Kostromarova. Ortop. travm. protez., Moskva 19 no.6:85-86 N-D '58.
(FRACTURES) (MIRA 12:1)

VOROKOV, Abi Khomgotovich

[The party organization of the Kabardino-Balkar A.S.S.R. in the struggle for a drastic improvement of agriculture from 1953 to 1958] Partorganizatsiia Kabardino-Balkarii v bor'be za krutoi pod'em sel'skogo khoziaistva, 1953-1958 gg. Msl'chik, Kabardino-Balkarskoe knizhnoe izd-vo, 1959. 73 p.

(MIRA 14:2)

(Kabardino-Balkar A.S.S.R.--Agriculture)

SHAROV, B.V., kand.med.nauk; VOROKOV, G.L.; AKALOVSKAYA, L.F.; BLEYKHNER,
V.M.; FRUMKIN, Ya.P., prof.

Electroencephalographic studies of some psychical diseases. Vop.
klin. nevr. i psikh. no.2:235-267 '58. (MIRA 14:10)
(ELECTROENCEPHALOGRAPHY) (MENTAL ILLNESS)

SHIKANOVA, I.A.; KORCHAGIN, M.V.; VOROKHOVA, L.A.

Feeding of the dye baths in the continuous method of dyeing
woolen fabrics with acid dyes. Tekst.prom. 22 no.9:11-14 S
'62. (MIRA 15:9)

1. Sotrudniki Moskovskogo tekstil'nogo instituta (for Shikanova,
Korchagin). 2. Moskovskiy tekstil'nyy institut (for Vorokhova).
(Dyes and dyeing--Wool)

GALINSKI, I.S.; VORON, D.N.; GREGOR'YEV, Ye.A.

Method of semicoking coal fines. Bul. TSICC no. 5:49 '61.

(MIRA 14:10)

(Coke)

VORON, F.P., nauchnyy sotrudnik

Breeding work in improving the Mirgorod, Krolevets, Podolian
and Dnieper Valley swine. Zhivotnovodstvo 21 no.4:53-58
Ap '59. (MIRA 12:5)

1. Nauchno-issledovatel'skiy institut zhivotnovodstva Lesostepi i Poles'ya USSR.
(Ukraine--Swine breeding)

PETELIN, L.S.; VORON, M.G.

Use of an electronic stimulator (Neurovar) for the recording
of biocurrents in muscles. Trudy TSU 72:87-93 '64.

(MIRA 18:11)

1. Kafedra nervnykh bolezney (zar. prof. N.S. Chatverikov)
TSentral'nogo instituta usovershenstvovaniya vrachey.

VORON, M.G.

Use of warm conifer baths in the treatment of parkinsonism.
Trudy TSU 72:131-135 '64. (MIRA 18:11)

1. Kafedra nervnykh bolezney (zav. prof. N.S. Chetverikov)
TSentral'nogo instituta usovershenstvovaniya vrachev.

MORAVSKIY, V.E.; SEMERGEYEV, S.I.; VORONA, D.S.

Duplex condenser discharge welding of silver alloy wire
contacts. Avtom. svar. 18 no.8:62-65 Ag '65.

(MIRA 18:11)

1. Institut elektrosvarki imeni Patona AN UkrSSR. Submitted
December 26, 1964.

GRIGOR'YEVA, Ye.A.; VORONA, D.A.

Changes in the fractional composition of the solid phase in a unit for
the heat treatment of milled peat with a solid heat-transfer agent.
Energetekh. ispol'. topl. no.2:153-159 '62. (MIRA 16:5)
(Peat--Drying)

MORAVSKIY, V.E.; SEMERGEYEV, S.I.; VORONA, D.S.

The THM-11 duplex spot condenser discharge welder for welding
longitudinal silver contacts. Avtom. svar. 17 no.12:68-71 D '64
(MIRA 18:2)

1. Institut elektrosvariki im. Ye.O.Patona AN UkrSSR.

RIPUN, M.B.; SANDLER, Ya.M.; VORONA, G.P.

Ferruginous oolites of Jurassic sediments in the western provinces
of the Ukrainian S.S.R. Lit. i pol. iskop. no.6:98-101 M-D '64,
(MIRA 18:3)
1. Institut geologii goryuchikh iskopayemykh AN UkrSSR, L'vov.

VORONA, G. T.

Eccentric mandrel for boring. Stan. i instr. 33 no. 10:39-40.
0 '62. (MIRA 15:10)

(Drilling and boring machinery—Attachments)

VORONA, N., starshina 2-py stat'i, komandir otdeleniya radiometristov

Spring cares of radar operators. Starsh.--serzh. no.3422 Mr. [?]
(MCRA 1544)

(Russia, Northern--Submarine boats) (Radar, Military)

VORONA, S.I.

Methods of physicmechanical testing of tubular rubber articles for
medical uses. Kauch.i rez. 21 no.7:54-57 J1 '62. (MIRA 15:7)

1. Nauchno-issledovatel'skiy institut rezinovykh i lateksnykh
izdeliy.

(Rubber goods---Testing)

formation of the austenite film on the surface and the range of reversal from austenite to austenite is between 100 and 1200. Mass production of thin-walled (10-15 mm) steel pipe is quite possible if the raw material is free of phosphatic impurities (nitrides and carbonitrides). The above steel type (EP302) offers the following properties: yield strength 3% lower (or content substituted by 3% Si). It shows interesting proper-

Card 1/2

DATE: 11-11-1964

the \mathcal{H}^1 -norm, the \mathcal{H}^1 -norm of the error is bounded by the \mathcal{H}^1 -norm of the exact solution and the regularity of the data. The \mathcal{H}^1 -norm of the error is bounded by the \mathcal{H}^1 -norm of the exact solution and the regularity of the data.

Journal of Interpersonal Violence, 20(1), 67-82.

VORONA, Ye.K.; KALININA, V.A. (Moskva); LOPATINA, MA., starshaya meditsinskaya sestra (Perm')

Nurses' councils. Med.sestra 21 no.9:58:60 S '62. (MIRA 15:9)
(NURSES AND NURSING)

TRANSFER IMAGE SERIES 7700

ACCESSION NR: AT4019289

S/0000/63/003/001/0081/0083

AUTHOR: Vertsner, V. N.; Vorona, Yu.M.; Zhdanov, G. S.

TITLE: Use of the EM-7 electron microscope for the investigation of crystal lattices and observation of dislocations

SOURCE: Simpozium po stekloobraznomu sostoyaniyu. Leningrad, 1962. Stekloobraznoye sostoyaniye, vy*p.1. Katalizirovannaya kristallizatsiya stekla (Vitreous state, no.1: Catalyzing crystallization of glass). Trudy* simpoziuma, v.3, no.1. Moscow, Izd-vo AN SSSR, 1963, 81-83 insert page between p. 80 and 81

TOPIC TAGS: glass, lattice structure, electron microscopy, dislocations, lattice dislocation, crystal lattice, copper phthalocyanin

ABSTRACT: The interlayer spacings were measured and dislocations were observed in copper phthalocyanin crystals by means of an EM-7 electron microscope in which the resolution was increased to 10 Å. Increasing the excitation of the objective to 4000 ampere-turns considerably decreased astigmatism, and spherical and chromatic aberrations. The electron microscope was used at 60 kV with a diaphragm 30-microns in diameter, at a beam current of 20 microamperes. Magnification

Card 1/2

ACCESSION NR: AT4019289

(electronic plus photographic) was 53,000 to 1,200,000 X, exposure time 8-10 sec. The conditions of the preparation and testing of the crystals are described. The small lattice spacings in one crystal with a period of 12.6 Å were resolved on 50% of the patterns, but spacings in crystals with a period of 10 Å were not visible under the electron microscope. Pictures of crystals or crystal sections with resolved faces are given in which each line corresponds to the projection on the photoplate of the crystal face (001) formed by copper phthalocyanin. Usually, the crystal faces were parallel to the edge of the crystal and had a perfect structure. However, dislocations were also observed in a crystal in which the planes converged at an angle of 15°. The microphotograph of a bent crystal is also illustrated. Orig. art. has: 4 figures.

ASSOCIATION: None

SUBMITTED: 17May63

DATE ACQ: 21Nov63

ENCL: 00

SUB CODE: MT, OP

NO. REF SOV: 000

OTHER: 005

Card 2/2

L 15254-66 EWT(1) LJP(c)
ACC NR: AP5027835

SOURCE CODE: UR/0020/05/165/001/0061/0062

AUTHOR: Vorona, Yu. M.; Vertaner, V.N.

ORG: none

TITLE: Use of double focusing electromagnetic lenses for microelectron diffraction pattern projection
21.44, 55

SOURCE: AN SSSR. Doklady, v. 165, no. 1, 1965, 61-62, and insert facing p. 62

TOPIC TAGS: electron diffraction analysis, electron optics, electron lens, electron microscopy

ABSTRACT: Conventional methods of electron microscopy utilize intermediate lens for the projection of enlarged images of the object or of its diffraction pattern. However, the authors show that a more detailed analysis of the properties of the condenser-objective lens makes the projection of enlarged electron diffractions possible without the introduction of an intermediate lens. Usually, the objective lens of an electron microscope forms, near the second focal point, a reduced image of the source of electrons. By increasing the excitation of the lens, this image plane moves toward the center of the lens and at a certain point

Card 1/2

UDC: 537.533.35

L 15254-66
ACC NR: AP5027835

double focusing of the electron beam is achieved by the single objective lens. The first section of the lens's field produces a reduced image of the cathode at a spot which is near the maximum of the field, and the second section of the field carries out the magnification. If an object is placed above the plane of the first image of the electron source, the plane then contains the desired diffraction pattern which is then magnified by the second part of the field of the objective lens. The article discusses questions of resolution and magnification of the newly proposed approach, and describes the favorable results obtained on a test setup designed in a standard EM-5 electron microscope. The paper was presented by Academician A. A. Lebedev, 22 Mar 65. Orig. art. has: 3 figures.

SUB CODE: 20 / SUBM DATE: 05Mar65 / ORIG REF: 001 / OTH REF: 002

Card 2/2 *AC*

VERTSNER, V.N.; VORONA, Yu.M.; ZHDANOV, G.S.

Observation of crystal lattices in a EM-5 electron
microscope. Opt. i spektr. 13 no.4:605-607 0 '62.

(MIRA 16:3)

(Electron microscopy) (Crystal lattices)

VORONA, Yu.M.; ZHDANOV, G.S.; VERTSNER, V.N.

Characteristics of studying crystal lattices with the EM-5 electron microscope. Zav.lab. 30 no.12:1480-1482 '64.

(MIRA 18:1)

VERTSNER, V.N.; VORONA, Yu.M.; VOROB'YEV, Yu.V.; BOGDANOVSKIY, G.A.;
CHENTSOV, Yu.V.

Optics of EM-5 and EM-7 electron microscopes. Izv. AN SSSR. Ser. fiz.
25 no.6:680-682 Je '61. (MIRA 14:6)
(Electron microscope)

FETCU, Elena, ing.; VORONCA, Al., ing.

Application of radioactive isotopes in exploring coal deposits by wells in Rumia. Rev min 13 no.11:488-498 N '62.

1. T.P.E.M.

RUSSU, T.; VORONCA, Al.

Supplementary reserves obtained by the geophysical logging of
the exploratory wells drilled in the Jiu Valley coal basin.
Rev min 16 no.2:67-70 F '65.

GUTCUDACHE, C., dr.; GORUN, V., dr.; COSTESCU, M., dr.; VORONCA, G.,
biolog

Considerations on the use of thromboelastography in clinical
medicine. Med. intern. 15 no.10:1265-1274 '63.

1. Lucrare efectuata in Spitalul clinic "Fundeni".
(BLOOD COAGULATION DISORDERS)
(THROMBOELASTOGRAPHY) (PHARMACOLOGY)
(THROMBOPENIA) (ANTICOAGULANTS)
(ANEMIA, SPLENIC) (HEMOPHILIA)
(LIVER CIRRHOSIS)

VORONCHEV, A. I.

AID Nr. 975-5 23 May

RADIO SOUNDING OF PLASMA MOVING AGAINST ELECTRODYNAMIC
ACCELERATION IN A COAXIAL ACCELERATOR (USSR)

Brodskiy, V. B., Ye. M. Belitskiy, A. T. Voronchev, N. V. Konyakhin,
and Yü. N. Starostin. Zhurnal tekhnicheskoy fiziki, v. 33, no. 4, 1963, ...
426--438. S/057/63/033/004/010/021

The relationship existing in a plasma between number of charged particles ejected both in and against the direction of electrodynamic acceleration has been evaluated to analyze processes occurring in a coaxial accelerator. A method is described for using two different wavelengths ($\lambda_1 = 0.8$ cm and $\lambda_2 = 3$ cm) simultaneously, by which the relationship between these quantities can be obtained. It was found that a plasmoid with a concentration of at least $n_1 > 10^{13}$ electrons/cm³ was moving in the direction of electrodynamic acceleration. The time it took for the plasmoid to cross the beam was

Card 1/2

AID Nr. 975-5 23 May

RADIO SOUNDING OF PLASMA [Cont'd]

8/057/63/033/004/010/021

$\tau_1 = 80 \mu\text{sec}$. A plasmoid with a concentration $n_2 \approx 10^{12}$ electrons/cm³ was moving in the reverse direction. Its time of crossing was $\tau_2 = 40 \mu\text{sec}$. Velocities of the plasmoid fronts moving in the direction of electrodynamic acceleration and against it were $V_1 = 10^7$ cm/sec and $V_2 = 4 \cdot 10^6$ cm/sec, respectively. Consequently, the relationship between the quantity of charged particles in plasmoids has the following form:

$$\frac{V_2 n_2 \tau_2}{V_1 n_1 \tau_1} \approx 0.02,$$

[KM]

Card 2/2

VORONCHEV, T.A., kand. tekhn. nauk, dotsent

Calculation of threshold modes of impulse thyatrons. Trudy MEI
55:239-253 '65. (MIRA 18:10)

SOKOLOV, V.D.; podpolkovnik; VORONCHIKHIN, D.A., gvardii polkovnik, redaktor;
SOROKIN, V.V., tekhnicheskii redaktor

[The vanguard; sketches of officer specialists in education and training] Idushchie vpered; ocherki ob ofitserakh-masterakh obucheniia i vospitaniia. Moskva, Voen. izd-vo Ministerstva obor. SSSR, 1955. 118 p. [Microfilm] (MIRA 9:11)
(Military education)

MEL'NIKOV, D.; CHERNAYA, L.; VORONCHIKHIN, D.A., gvardii polkovnik,
redaktor; SOKOLOVA, G.F., ~~tekhnicheskii~~ redaktor

[Hitler's generals are getting ready for revenge] *Gitlerovskie
generaly gotoviatsia k revanshu. Moskva, Voennoe izd-vo 'Minister-
stva obronoy Soiuza SSR, 1954. 158 p. [Microfilm] (MLA: 7:10)
(Germany, Western—Defenses)
(National socialism)*

CHERTANOV, Arkadiy Alekseyevich; VORONCHIKHIN, D.A., gvardii polkovnik,
redaktor; RAMZIN, M.M., polkovnik, redaktor; SOLOVCHNIK, P.L.,
tekhnicheskii redaktor

[When attacking, keep abreast of the advance elements.] V atake
ravniat'sia po perednim. Moskva, Voen. izd-vo Ministerstva obor.
SSSR, 1956. 44 p. (MLRA 9:8)
(Infantry drill and tactics)

NABOKIKH, A., polkovnik; VORONCHIKHIN, D.A., gvardii polkovnik; KAZAKOVA,
V.Ie., tekhnicheskii redaktor.

[Constantly improve your military and political knowledge] Neustanno
sovershenstvovat' svoi voennye i politicheskie znania. Izd.2-oe,
perer.1 dop. Moskva, Voen.izd-vo Ministerstva obor.SSSR, 1954. 54 p.
[Microfilm] (MIRA 9:4)

(Military education) (Soldiers--Education, Nonmilitary)

VORONCHIKHIN, D.A., polkovnik, redaktor; SOUCLOVA, G.F., tekhnicheskiy redaktor.

[Experts] Otlichniki. Moskva, Voen. ind-vo Ministerstva obor.
SSSR, 1953. 103 p. [Microfilm] (MLBA 9:5)
(Russia--Army)

VORONCHIKHIN, S.I.; RUPASOV, N.F.; STRELKOV, S.Ya.; GAZITOV, KH.M.; KOZ'MIN,
M.G.; MUL'TANOVSKIY, B.N.; SABEL'NIKOV, I.I.; SOLOPATIN, A.G.; CHUDHOVA,
V.S.

In memory of S. A. Flerov. Khirurgia, Moskva no. 10:88 Oct 1952.
(GIML 23:3)

1. Obituary of Head of the Department of Faculty Surgery at Izhevsk
Medical Institute.

1. VORONCHIKHIN, S. I. Prof.
2. USSR (600)
4. Flerov, Sergei Andreevich, ?-;952
7. In memory of S. A. Flerov. Khirurgia no. 10 1952
9. Monthly List of Russian Accessions, Library of Congress, March 1953. Unclassified.

GUBERGITS, A.Ya., prof., zasl. deyatel' nauki Udmurtskoy Avtonomnoy SSR, otv. red.; VORONCHIKHIN, S.P., zasl. deyatel' nauki Udmurtskoy Avtonomnoy SSR, red.; GAZIZOV, A.M., red.; ZARAYSEAYA, A.A., red.; MAMAYEV, A.H., red.; ORESHKOV, T.M., zasl. vrach Udmurtskoy Avtonomnoy SSR, red.; ODIYANKOV, G.A., red.; RUPASOV, N.F., red.; SOMOVA, V.I., red.; KOREPANOVA, L.V., red.; MASHAGATOV, V.F., kand. med. nauk, red.; VORONTSOVA, Z.Z., tekhn. red.

[Problems in the pathology of the biliary tract; collected scientific works of the First Republic Clinical Hospital.] Voprosy patologii zhelchnykh putei; sbornik nauchnykh trudov 1-1 Respublikanskoi klinicheskoi bol'nitsy. Izhevsk, Udmurtskoe knizhnoe izd-vo, 1960. 222 p. (MIRA 15:3)

1. Zaveduyushchiy terapevticheskimi klinikami Izhevskogo meditsinskogo instituta (for Gubergrits). 2. Terapevticheskaya klinika Izhevskogo meditsinskogo instituta (for Oreshkov, Mashagatov). 3. Zaveduyushchiy fakul'tetom khirurgicheskoy kliniki Izhevskogo meditsinskogo instituta 1-oy Respublikanskoy klinicheskoy bol'nitsy Ministerstva zdravookhraneniya Udmurtskoy Avtonomnoy SSR (for Voronchikhin). 4. Fakul'tet khirurgicheskoy kliniki Izhevskogo meditsinskogo instituta 1-oy Respublikanskoy klinicheskoy bol'nitsy Ministerstva zdravookhraneniya Udmurtskoy Avtonomnoy SSR (for Odiyankov).

(BILIARY TRACT--DISEASES)

1. VORONCHIKHIN, S. I., Prof. and others.
2. USSR (600)
4. Surgeons
7. In memory of S. A. Flerov. Khirurgia no. 10, 1952.

9. Monthly List of Russian Accessions, Library of Congress, March 1953, Uncl.

10

Chemistry of sugar hydrazones and osazones. P. VOROCHIN and P. VALENTIN. *Arkhiv. Khim. Farm.* 5, 155-61 (1912 French) (1931).—The sugar components can be recognized by boiling the hydrazones with 12% HCl, the hydrazones of a pentose methylpentose yield fural or methylfural and hexose yields neither. The test can be effected microchemically with a few cc. of the sugar hydrazone. In osazone derivs. of disaccharides it can be seen whether a pentose or methylpentose component does or does not constitute the reducing part of the sugar mol. V. and V. measured the rotatory power of the phenylosazone of lactose and its anhydride in MeOH. The first diminishes with time, the second (often higher on account of the anhydride ring) remains const. Due to the smaller soly. of its hydrazone, $p\text{-O}_2\text{N}C_6H_4$ renders possible an integral solution even where it is incomplete with NaOH as in the case of rhodose methylphenylhydrazone. The hydrazone radicals can be replaced by other hydrazone residues, not only in hydrazones, but also often in osazones with the formation of a new osazone either simple or mixed. Thus, fructose methylphenylosazone, treated in the cold with an excess of $\text{PhNHNH}_2 \cdot \text{AcOH}$, gives the corresponding zone, which in the cold with an excess of $\text{PhNHNH}_2 \cdot \text{AcOH}$, gives the corresponding zone, treated in the cold with an excess of $\text{PhNHNH}_2 \cdot \text{AcOH}$, gives the corresponding zone, $\text{HOCH}_2(\text{CH}(\text{OH}))_4\text{C}(\text{NNMePh})\text{CH}(\text{NNHC}_6\text{H}_5)\text{Br}$. The theory of Zerner and Walthach, according to which the inconstancy of rotatory power of osazones is due to the tautomeric change of a dihydrazone form into an azoic form, cannot be maintained, since fructose methylphenylosazone, which does not possess any H susceptible of migration, shows also the phenomenon of mutarotation.

J. KUCKERA

ZVYAGINTSEV, A.Ye., dotsent; VOROKHOBOV, L.A.

Intravenous and intraosseous anesthesia with tourniquet in
children. Khirurgiia no.3:45-49 Mr '54. (MLHA 7:5)

1. Iz kliniki detskoy khirurgii II Moskovskogo meditsinskogo insti-
tuta im. I.V.Stalina (zaveduyushchiy kafedroy - professor S.D.
Ternovskiy) na baze detskoy bol'nitsy im. N.Y.Filatova (glavnyy
vrach M.H.Kalugina)

(ANESTHESIA, LOCAL,
intraosseous with tourniquet in child)
(ANESTHESIA, INTRAVENOUS,
in child., with tourniquet)

VOROKHOBOV, L.A.; PIVOVAROVA, Z.A.

Treatment of hip fractures in children. Vest.khir.76 no.8;60-63
S '55. (MLRA 8:11)

1. Iz detskoy bol'nitsy im. Filatova (gl.vrach--M.N.Kalugina) i
kliniki detskoy khirurgii 2-go Moskovskogo meditsinskogo insti-
tuta im. I.V.Stalina(zav.prof. S.D.Ternovskiy) Moskva, 9,
Bryusovskiy per.,d.2/14, kv.101.

(HIP, fract.

ther., in child)

(FRACTURES

hip, in child, ther.)

VORONKOV, M. G.

USSR/ Chemistry Reaction processes

Card : 1/1 Pub. 151 - 17/35

Authors : Dolgov, B. N., Kharitonov, N. P., and Voronkov, M. G.

Title : Reaction of trialkylsilanes with alcohols. Synthesis of trialkylalkoxysilanes and their physical properties

Periodical : Zhur. ob. khim. 24, No. 7, 1178 - 1188, July 1954

Abstract : The reaction of R_3SiH ($R = C_2H_5, n-C_3H_7, n-C_4H_9$) (trialkylsilanes) with primary, secondary and tertiary alcohols in the presence of alkali metal alcoholates, was investigated. The effect of the trialkylsilane structure, alcohol and atomic number of the metal on the alcoholate used as catalyst on the rate of reaction, is explained. The trialkylsilane-alcohol reaction was found to be simple and suitable for the synthesis of trialkylalkoxysilanes. Thirty-six references: 9 USSR, 27 USA, English and German. Tables.

Institution :

Submitted :

POPOT, V. L. and VOROTY, L. DISCOVERY OF DEWIL
TIERITE ON THE BANKS OF THE GAVA (SOUTH PERSIAN).
Raredka Neda, 10 (2-5) 97-98 (1940). -- On the banks of
the Gava River (Uzbekistan), a mineral was found which
contained 41.00% SiO₂, 0.4 TiO₂, 50.44 Al₂O₃, 0.00 Fe₂O₃,
0.04 FeO, traces of MgO, 4.19 B₂O₃, 0.6 KO₂, and 0.17 K₂O.
+ Na₂O. Its density is 3.221. It is believed to be a
quartz porphyry transformed by hydrothermal agents.
because of its high alumina and low iron and base content,
this material should be highly refractory.

USSR/Electronics - Gas Discharge and Gas Discharge Instruments

H-7

Abs Jour : Referat Zhur - Fizika, No 5, 1957, 12371

Author : Vorol'ev, A.V., Tikhodeyev, N.M.

Inst : -

Title : Physical Simulation of the Characteristics of Corona.

Orig Pub : Zh. tekhn. fiziki, 1955, 25, No 11, 2008-2010

Abstract : Using the balance equations for the positive and negative ions, and also taking into account the field of the space charge and the boundary conditions, the authors find general similarity criteria for the characteristics of corona in dc and ac voltages (in the case of a two-conductor system).

Bibliography, 5 titles.

Card 1/1

VORON, F. P., Cand Agr Sci -- (diss) "Production characteristics of hogs of the mirgorodskaya breed, the krolevetskaya, podol'skaya, and the pridneprovskaya breeds group and some problems of breeding work with these." Khar'kov, 1960. 21 pp; (Ministry of Agriculture Ukrainian SSR, Khar'kov Zootechnology Inst); 200 copies; free; (KL, 26-60, 140)

"APPROVED FOR RELEASE: 03/20/2001

CIA-RDP86-00513R001860910004-2

APPROVED FOR RELEASE: 03/20/2001

CIA-RDP86-00513R001860910004-2"

VORON, Ya.M.

Construction of shallow wells in the Kalmyk A.S.S.R.
Gidr.1 mel. 12 no.5:45-47 My '60. (MIRA 13:7)

1. Nachal'nik Oblvodkhosa, g.Blista.
(Kalmyk A.S.S.R. ---Wells)

VORON, Ya. M.; ZHURAVKOV, S.A., inzhener.

Improving water utilization by collective farm sections. Gidr.
i mel. 8 no.6:48-49 Je '56. (MLRA 9:9)

1. Upravleniye Tersko-Kumskoy obvodnitel'no-irrigatsionnoy sistemy
(for Voron). 2. Ministerstvo vodnogo khozyaystva RSFSR (for
Zhuraykov).

(Water supply, Rural)

ARKHIPENKO, V.I.; AGEYEVA, M.Kh.; VORONA, A.P.

Differential diagnosis of Botkin's disease and mechanical jaundice
using ^{131}I . Med. rad. 9 no.8:42-45 Ag '64. (MIRA 18:4)

1. Kafedra gistologii (zav. V.I. Arkhipenko) Dnepropetrovskogo
meditsinskogo instituta i kafedra infektsionnykh bolezney (zav.
G.A.Fridman) Khar'kovskogo meditsinskogo instituta.

BOGDANOV, N.N., kand.tekhn.nauk; VORONA, D.A., inzh.; GALYKHER, I.S.,
doktor tekhn.nauk; GAMBURG, D.Yu., kand.khim.nauk; GRIGOR'Yeva,
Ye.A., inzh.; ZYKOVA, V.P., inzh.; RYABTSEV, K.I., kand.tekhn.
nauk; SERGEYEV, B.F., kand.tekhn.nauk; STANKEVICH, P.I., kand.
tekhn.nauk; LARIONOV, G.Ye., tekhn.red.

[Gasification of milled peat] Gasifikatsiya frezernogo torfa.
Moskva, Gos.energ.izd-vo, 1959. 119 p. (MIRA 13:3)
(Peat gasification)

VORONA, G.

~~CONFIDENTIAL~~
Master miners' school. Mast. ugl. 3 no. 8:15-16 Aug '54. (MIRA 7:9)

1. Nachal'nik uchastka shakhty No. 31 kombinata Karagandaugol'.
(Mining engineering--Study and teaching)

VORONA, G. B.

USSR/ Agriculture - Grain raising

Card 1/1 Pub. 77 - 16/23

Authors : Vorona, G. B.

Title : Large grains

Periodical : Nauka i Zhizn' 2¹/10, page 32, Oct 1954

Abstract : An account is given of planting large and small grains in separate fields for comparison, but under equal conditions. It was found that the harvest is greatly increased if the seeds are large and of even size and weight. Illustration.

Institution : ...

Submitted : ...

VORONA, G.B.

Larg-seeded grain. Nauka i zhizn' 21 no.10:32 0 '54. (MLRA 7:11)

1. Glavnyy agronom Giprosel'stroya USSR.
(Grain)

SANDLER, Ya.M.; VORONA, G.P.

Brief lithological description of upper Jurassic deposits in the
western provinces of the Ukraine. Nauk. zap. L'viv. nauk. pryrod. muz.

AN URSS 4:55-58 '55.

(MIRA 9:9)

(Ukraine--Geology, Stratigraphic)

VORONAYA, G.Yu., klinicheskiy ordinator

Case of hemophilia on ophthalmological practice. Oft.zhur. 15 no.7:
442-444 '60. (MIRA 13:11)

1. Iz glaznoy kliniki (zav. - prof. P.S.Plitas) Kiyevskogo ordena
Trudovogo Krasnogo Znameni meditsinskogo instituta imeni akademika
A.A.Bogomol'tsa.

(HEMOPHILIA)

(EYE--DISEASES AND DEFECTS)

BREDIKHIN, I.S.; KLISHEYKO, V.A.; VORONA, I.D.; GONCHAR, A.G.

Digging prospecting trenches with a D-254 plow-type trench digger. Razved.i okh.nedr 28 no.3:19-21 Mr '62. (MIRA 15:4)

1. Yuzhno-Yakutskaya kompleksnaya ekspeditsiya Yakutskogo geologicheskogo upravleniya.

(Prospecting--Equipment and supplies)
(Excavating machinery)

NEL'ZINA, Ye.N.; CHERNOVA, N.I.; VOPOVA, I.M.; PYLENKO, M.S.

Role of Ornithonissus bacoti (S. Hirst, 1913) (Parasitiformes, Gamasides) in natural foci of plague; author's abstract. Med. paraz. i paraz. bol. 34 no.3:357-358 My-Je '65.

(MIRA 18:7)

1. Rostovskiy-na-Donu nauchno-issledovatel'skiy protivochumnyy institut i Astrachanskaya protivochumnaya stantsiya.

PHASE I BOOK EXPLOITATION

756

Kirchenko, Andrey Ivanovich, Engineer, and Vorona, Iosif Naumovich, Engineer

Montazh kuznechno-pressovogo oborudovaniya; kratkoye spravochnoye posobiye
(Erection of Forge and Press Equipment; Brief Reference Aid) Moscow,
Mashgiz, 1958. 267 p. 6,000 copies printed.

Ed. (title page): Yakovlev, V.N., Engineer; Ed. (inside book): Vorona, I.N.,
Engineer; Ed. of Publishing House: Tsopin, K.G.; Tech. Ed.: Tikhonov, A.Ya.;
Managing Ed. for information literature (Mashgiz): Krylov, V.I., Engineer.

PURPOSE: The book is intended for engineers and technicians of machine-building
plants and of agencies with erection departments.

COVERAGE: The book gives the mechanical characteristics of various forge and
press equipment. Basic information on erecting pneumatic forging hammers,
crank presses, hydraulic and steam presses, pump and accumulator units and
some suggestions on their adjustment and setting into operation are pre-
sented. No personalities are mentioned. There are 7 references, all Soviet.

Card 1/11

Erection of Forge and Press Equipment (Cont.)

756

TABLE OF CONTENTS:

Ch. I. Classification of Forge and Press Equipment (Vorona, I.N., Engineer)	
Ch. II. Determining Man-hours Required for Erection and Estimat- ing the Number of Men Required (Vorona, I.N., Engineer)	3
Determination of man-hours required for erection work:	6
Determination of number of men required	6
Ch. III. Basic Instructions for Erection of Forge and Press Equipment (Vorona, I.N., Engineer)	15
Selection of the method and of the plan of erection	16
Specifications, drawings and provisions for erection	16
Acceptance of foundations	17
Assembly and erection of basic units and parts	18
Ch. IV. Erection of Steam-hydraulic Presses (Kirichenko, A.I., Engineer)	20
Erection of a heavy forging press	45
Preparatory work 45; Installation of foundation plates 45;	45

Card 2/11

Erection of Forge and Press Equipment (Cont.)

756

Installation base plates 50; Installation of base 53;
Erection of columns 55; Installation of the traverse table
with the drive 57; Installation of the main crosshead 58;
Installation of the main runs 62; Assembly and installation
of the entablature and of the upper column nuts 66; Installa-
tion of the main cylinders 67; Installation of tubing 67;
Installation of the rods of drawback mechanisms and drawback
cylinders 69; Testing the mechanisms 70

Installation of the direct action intensifier

70

Preparatory work 70; Mounting the base and cylinder 72;
Assembly and installation of the piston 73; Erection of
columns and crosshead 74; Assembly and installation of the
steam valve 74; Installation of the servomotor and of the
tubing 76; Checking and testing of mechanisms 77

Installation of reverse action intensifiers

78

Installation of hydraulic cylinders and of the crosshead 78;
Installation of the steam cylinder 80;
Installation of valves, control levers and tubing 80;
Test of hydraulic systems 81; Test of steam systems 82

Card 3/11

Erection of Forge and Press Equipment (Cont.)

756

Erection of an overhung-type forging press

82

Setting the frame 85; Installation of the main hydraulic cylinder and ram 85; Installation of the steam cylinder and the servo-drive 86; Installation of the intensifier's steam cylinder and parts 87; Installation of steam and hydraulic tubing 87; Setting-up the press 88; Testing sequence for the press 88; Starting the press 90; Stopping the press 90; Possible troubles 91

Ch. V. Erection of Large Hydraulic Presses (Vorons, I.N. Engineer)

92

Erection of a 30,000-ton eight-column hydraulic forging press

95

Preparatory work 95; Installation of the column base plates 95; Installation of the press base 95; Erection of columns 101; Installation of the cross bridge and the traverse table 104; Installation of the balancing and on drawback cylinders 106; Installation of bottom spacer bushings and the crosshead 107; Installation of pressure plates 110; Installation of spacer bushings, bushings limiting the crosshead travel and of the bottom column-nuts holding the entablature 111; Installation

Card 4/11

Erection of Forge and Press Equipment (Cont.)

756

of main rams and cylinders 112; Installation of the entablature 113; Installation of spherical discs under the main rams 113; Installation of the upper column nuts on the entablature 113; Installation of traverse table operating cylinders 115; Installation of filling (damping) tanks 116; Installation of filling valves 116; Installation of the crosshead's bottom plates 116; Tightening the heated-up upper column nuts on the entablature and on the base 116

Erection of a 15000-ton four column vertical hydraulic press 117
 Preparatory work 117; Installation of the column base plates 117; Assembly and installation of the press base 119; Assembly and installation of the crosshead 120; Erection of columns 122; Installation of rams 123; Installation of main cylinders 124; Installation of cylinder housings 125; Assembly and installation of the entablature 125; Installation of the balancing and drawback cylinders 126; Installation of the table cross bridge 126; Installation of the ejector 127; Installation of the traverse table and of its operating cylinders 128; Installation of bushings limiting the crosshead's travel 129; Final tightening-up of the nuts 129;

Card 5/11

Erection of Forge and Press Equipment (Cont.)

756

Installation of floor cover plates 129; Installation of the filling valves 129; Installation of the low pressure shock absorbers 129; Packing the stuffing boxes 130; Installation of the intensifier, surge tank and high pressure shock absorber 130; Installation of the solenoid control valves, locking and safety devices, tubing and control console 130

Ch. VI. Installation of Hydraulic Pump and Accumulator Units
(Verona, I.N., Engineer and Klimchenko, A.I., Engineer)

131

Hydraulic pump and accumulator units

131

High pressure pumps 132; High pressure compressor 136;
Pressure air and water tanks 137; Pressure head tank 137;
Tubing, fittings and valves 137

Basic regulations for installation of the equipment of hydraulic pump and accumulator units

138

Instructions on accumulator installation 138; Instructions on installation of horizontal crank-plunger-type high pressure pumps and of auxiliary equipment 140; Trying-out the

Card 6/11

Erection of Forge and Press Equipment (Cont.)

756

idling pump 148; Instructions on installation of fittings and valves and of locking and control devices 149; Instructions for the hydraulic testing of an accumulator 156

Ch. VII. Setting-up and Test-running Hydraulic Press Installations
(Vorona, I.N., Engineer)

158

158

Setting-up a hydraulic pump and accumulator unit

Changing the accumulator with high-pressure air 158;

Filling the accumulator with high-pressure water 158; Putting into operation pump and accumulator units 159

Setting-up the hydraulic presses

166

General regulations 166; Setting-up a 15000-ton four column vertical hydraulic press 171; Brief description of the hydraulic system of the press 172

Ch. VIII. Erection and Setting-up of Crank-Toggle Presses
(Kharichenko, A.I., Engineer)

189

189

Erection of a crank-toggle press

Installation of base plates 192; Erection of the press-frame 192; Mounting the slide 193; Mounting the crown of

Card 7/11

Erection of Forge and Press Equipment (Cont.)

756

the press 193; Installation of control mechanism for the cushion and the slide 193; Installation of the automatic engagement mechanism 195; Installation of the crankshaft, pinion and clutch 195; Installation of the drive shaft and band brake 196; Installation of lubrication systems 198

Setting-up a crank-toggle press

199

Erection of a 145-ton frame for crank-toggle press by means of erection masts

202
206

Erection of a percussion press

Acceptance of the foundation and erection of the frame 207; Installation of the slide, crown and screw with flywheel 208; Installation of brackets and horizontal shaft 208; Mounting the ejector 208; Installation of the press linkage control system 209; Setting-up and starting the press 210

213

Characteristics of presses

Card 8/11

Erection of Forge and Press Equipment (Cont.)

756

Ch. IX. Erection and Setting-up of Forge Hammers
(Kirichenko, A.I., Engineer)

Erection of a overhang-type hammer

216

216

Acceptance of foundation and preparatory work for erection 216; Mounting the anvil block 217; Mounting the foundation plate and the anvil plate 217; Erection of the frame 218; Installation of steam cylinders, pistons and heads 218; Installation of steam valve and hammer control devices 219; Installation of tubing, fittings and valves 222; Installation of the lubrication system 223; Starting, adjustment, testing and turning over in service 223

Erection of a two-column hammer

225

Preparatory work 226; Mounting the anvil block, the bottom head and foundation bolts 227; Mounting the base plates for the right and left column 228; Installation of the cross-beam and of guides for the ram 229; Installation of the ram and of steam cylinder with piston 229

Card 9/11

Erection of Forge and Press Equipment (Cont.)

756

Erection of a forge hammer

231

Preparatory work 233; Mounting the anvil block and the bolster plate with the lower head 233; Erecting the right and left column 233; Installation of the ram, steam cylinder and piston with rod 234; Installation of the steam distribution control system 234; Installation of tubing, fittings and valves 235; Starting and adjusting the hammer 235

Erection of a pneumatic hammer

237

Preparatory work and mounting the anvil block 237; Erection of the housing 238; Installation of the main piston, the upper head and the rear column 239; Installation of the crankshaft with flywheel, compressor piston, motor and control and lubrication systems 239; Starting and adjusting 239

Erection of mechanically driven hammers

240

Preparatory work, mounting the anvil block and bolster plate 241; Erecting the columns with guides 241; Installation of ram, board, friction head, linkage control and lubrication systems 241; Starting and adjusting 243; Characteristics of forging hammers 244

Card 10/11

Erection of Forge and Press Equipment (Cont.)	756
Ch. X. Installation of Auxiliary Equipment (Kirichenko, A.I., Engineer)	251
Installation of manipulators	251
Installation of travel mechanisms 251; Installation of frame rotation mechanisms 251; Installation of the cradle with tongs 251; Installation of the vertical control mechanism of the tons 255; Installation of the rope drum revolving mechanism and of the lubrication system 255; Starting and testing manipulators 255	
Installation of the charging machine	257
Preparatory work and mounting the platform 257; Installation of the platform travel mechanism 258; Installation of the movable carriage and turning mechanism 258; Installation of clamping and tong-lifting mechanisms 259; Starting and adjust- ing the charging machine 259	
Installation of a link-chain support	260
Bibliography and sources	263
AVAILABLE: Library of Congress	GO/aak
Card 11/11	11-05-58

VORONA, Iosif Naumovich, inzh.; KIRICHENKO, Andrey Ivanovich, inzh.;
YAKOVLEV, V.N., inzh., red.; TSOPIN, K.G., red. 1zd-va; TILHANOV,
A.Ya., tekhn. red.

[Assembling forging and pressing equipment; a concise manual]
Montazh kuznechno-pressovogo oborudovaniia; kratkoe spravocchnoe
posobie. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry,
1958. 267 p. (MIRA 11:7)

(Hydraulic presses) (Power presses)
(Forging machinery)

L 61699-65 EWT(m)/EWA(d)/T/EWF(t)/EWF(x)/EWI(z)/EWP(h)/EWA(c) PF-4 1.31/JD/11
 ACCESSION NR: AR5012848 UR/0137/65/X 0/003/1029/1029

SOURCE: Ref. zh. Metallurgiya, Msk. 31902

AUTHOR: Piyatskovskiy, O. A.; Kuznetsov, V. M.; Pavlovskiy, B. G.; Vorobey, M. M.;
 Lezinskaya, Ye. Ya.

TITLE: Production of tubes from EP27 steel

CITED SOURCE: Sb. Proiz-vo trub. Vyp. 13. M., Metallurgiya, 1964. 5-8

TOPIC TAGS: metal tube, steel, temperature interval, hot rolling, billets,
 metal ductility, heat treatment, cold working/ EP27 steel

TRANSLATION: It has been established as a result of an investigation that the optimum temperature interval for the hot rolling of tubes of EP27 steel lies within the limits of 1150-1180°. In heating the tube shaped billets it is necessary to take into account the heating up of the metal in the processing operation. Hot rolled tubes of EP27 steel have a sufficient reserve of ductility for further cold working without special heat treatment. The intermediate and final heat treatment of the EP27 steel tubes should be carried out by heating them to 1050-1100° with a holding time at this temperature depending on their wall thickness, and by

Card 1/2

L 61699-65

ACCESSION NR: AR5012848

subsequent cooling in air. M. Yudin.

SUB CODE: 121

REMARKS: 00

llc
Card 2/2

VORONA, S. (Kiyev)

Mechanical method for marking clothing. Prom.koep.no.5:25 My '56.
(MLRA 9:9)

1.Tekhnoruk fabrikki khimchiatki arteli "Chervonny khimfarbar".
(Marking devices)

83663

S/138/60/000/002/008/009
A051/A029

17.1400 also 1209

AUTHORS: Vorona, S.I., Kuzina, Ye.N.

TITLE: The Problems Concerning the Composition of X-Ray-Protective Rubbers and the Calculation of Their Protective Property

PERIODICAL: Kauchuk i Rezina, 1960, No. 2, pp. 35 - 43

TEXT: The authors point out that in view of the increasing application of X-rays the need for protective means has grown. A brief outline of the physical properties of X-rays and a list of the major formulae explaining the behavior of the rays is given. The absorption of X-rays takes place according to the exponential law. The protective properties of the material are usually characterized in practice by the following parameters: 1) the lead equivalent (i.e., the thickness of lead in mm, equivalent to the protective qualities of a layer of material); 2) the lead coefficient K (the thickness of lead in mm equivalent in its protective properties to a layer of material with a thickness of 1 mm) expressed in %. For rubbers containing lead or its compounds it would be: $K = 10 \rho - 13$. It is known from literature that rubber used for protective purposes usually contains lead monox-

Card 1/4

83663

S/132/60/000/002/008/009
A051/A029

The Problems Concerning the Composition of X-Ray-Protective Rubbers and the Calculation of Their Protective Property

ide as a filler (Refs. 6,7,9). The disadvantages of this filler lie in its tendency to combine with the sulfur during the vulcanization process, causing a darkening of the vulcanizate. The latter also have a low aging resistance when containing lead monoxide in the presence of high doses of sulfur. The authors suggest that butadiene-styrene rubber be used for better resistance to gamma- and X-radiation. The main purpose of this work was to improve the quality of X-ray protective rubber and to discover new fillers which would replace the toxic and scarce lead monoxide. Three paths were followed in the investigations: a) a study of the X-ray protection fillers and softeners, b) a study of the effectiveness of a combined application of fillers, c) a study of the expediency of using multi-layer X-ray protective rubber. The first two points are discussed in the present article. The results showed that pressing vulcanization does not increase the protective properties of rubber contrary to existing opinions. A series of fillers,¹⁵ containing elements with a relatively high atomic number, were investigated as to their effect on the lead coefficient. It was established that the

Card 2/4

83663

B/130/60/000/002/008/009
A051/A029

The Problems Concerning the Composition of X-Ray-Protective Rubbers and the Calculation of Their Protective Property

lead coefficient of fillers introduced into the rubber mixture in equal volumetric concentrations, decreases with the decrease of the atomic number of the corresponding active elements (see Table 2). This agrees with the absorption law of X-rays. The concentration of the fillers was also studied. After deriving several Formulae (8 - 13), the following conclusions could be drawn: 1) the lead coefficient of rubber filled with lead monoxide is numerically equal to the volumetric concentration of the lead in the rubber, 2) the lead coefficient of the rubber is a linear function of the volumetric concentration of the lead monoxide contained therein. Experimental results shown in Table 3 confirm the validity of these conclusions. The calculations show that the greater is the concentration of the filler, the less the weight of a unit area of the X-ray protection plate at a constant lead equivalent. Upon investigating the effectiveness of applying a mixed filler it was found that in all cases, except the one where the rubber contains lead monoxide with chalk, the lead coefficient in the combined application of fillers does not change additively, which is an anomaly of the law of absorption of X-rays. According to the authors no physical explanation can be

Card 3/4

~~VARONAYA~~ G.Yu. (Kiyev)

Two cases of benign bronchial tumors. Vrach.delo no.12:
1301-1303 D '56. (MIRA 12:10)

1. Patologoanatomicheskiy otdel(zav. - kand.med.nauk V.F.
Yur'yev) Ukrainского nauchno-issledovatel'skogo instituta
tuberkuleza.

(BRONCHI--TUMORS)

83663

S/138/60/000/002/008/009
A051/A029

The Problems Concerning the Composition of X-Ray-Protective Rubbers and the Calculation of Their Protective Property

given for this phenomenon. The greatest decline from the law of absorption was found in the mixture of lead monoxide with barium sulfate (Fig. 4). Based on experimental results a composition was developed for the IR-40V (PV-40V) type rubber. It is pointed out that in industry barium sulfate can be substituted by ground barium oxide. The method for computing the lead coefficient of rubber containing lead monoxide combined with other fillers is outlined in detail. There are 4 tables, 8 figures and 13 references: 3 Soviet and 4 English.

ASSOCIATION: Nauchno-issledovatel'skiy institut rezinovyykh i lateksnykh izdeliy (Scientific Research Institute for Rubber and Latex Products)

Card 4/4

VORONA, V.A. [Vorona, V.O.]

Conditions governing the occurrence of redish-brown clays
in the left area of the Dnieper Valley. Dop. AN URSR
no.11:1517-1519 '64. (MIRA 18:1)

1. Institut geologicheskikh nauk AN UkrSSR. Predstavleno
akademikom AN UkrSSR V.G. Bondarchukom [Bondarchuk, V.H.].

VORONA, V.A. [Vorona, V.O.]

Distribution of red-brown clays in the left bank area of the Dniepr Valley. Dop. AN URSSR no.1:111-112 '64. (MIRA 17:4)

1. Institut geologicheskikh nauk AN UkrSSR. Predstavleno akademikom AN UkrSSR V.G.Bondarchukom [Bondarchuk, V.H.].

VORONA, Yu.M.; VERTSNER, V.N.

Use of a doubly focusing electromagnetic lens in producing electron diffraction micropatterns. Dokl. AN SSSR 165 no.1:61-62 N '65.

(MIRA 18:10)

1. Submitted March 22, 1965.

VERTISNER, V.N.; VORONA, Yu.M.; ZHDANOV, G.S.

Using an EM-7 electron microscope to study crystal lattices and
observe dislocations in them. Stekloobr. sost. no.1:81-83 '63.
(MIRA 17:10)

ZHDANOV, G.S.; VORONA, Yu.M.

Electron-microscopic study of crystalline modifications of copper
phthalocyanin. Izv. AN SSSR. Ser. fiz. 27 no.9:1232-1234 3
'63. (MIRA 16:9)

(Electron microscopy) (Phthalocyanins)

1. 8469-65 AFTC(b)/SED/ASD(e)-5/AS(e)-2/ATWL/ESD(gs)/ESD()/HLM(t)

ACCESSION NH: AP4048490

3/0109/04/009/003/14/5/1493

AUTHOR: Vortner, V. H.; Vorona, Yu. H.

TITLE: Resolution and dispersion of the EM-5 and EM-7 electron microscopes during electron diffraction studies

SOURCE: Radiotekhnika i elektronika, v. 9, no. 8, 1964, 1488-1493

TOPIC TAGS: electron microscope, diffraction analysis, microdiffraction, zero-diffraction, intermediate lens, electron diffraction/EM-5 microscope, EM-7 microscopes

Abstract: The article considers the operation of the EM-5 and EM-7 microscopes in a regime of micro- and macro-diffraction. Computations are conducted on the dimensions of the electron spot on the photographic plate for three variants of the arrangement of the lenses of the microscope during micro-diffraction. It is shown that in an optimum regime with $\lambda = 1 \text{ \AA}$ it is possible to resolve adjacent reflections corresponding to a difference of the interplanar distances of $\Delta d = 0.0003 \text{ \AA}$ with a dispersion of $2\theta = 1 \text{ mrad}$. In the case of micro-diffraction the resolving capacity is restricted by the astigmatism of the intermediate lens and is equal to 1000. There are four figures and one table; the bibliography contains one item.

Card 1/2

L 8469-65

ACCESSION NR: AP4048490

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Card 2/2

VERTSNER, V.N.; IVANOV, M.G.; VORONA, Yu.M.; NIKIFOROVA, V.G.; VOROB'YEV, Yu.V.;
KLYUKIN, V.Ye.

EM-7 electron microscope. Izv. AN SSSR. Ser. fiz. 27 no.9:1193-
1195 S '63. (MIRA 16:9)

(Electron microscope)

K2198

S/051/62/013/004/019/023
E032/E514

24.3200

AUTHORS: Vertsner, V.A., Vorona, Yu.M. and Zhdanov, G.S.

TITLE: Observation of the crystal lattice with the EM-5
(EM-5) electron microscope

PERIODICAL: Optika i spektroskopiya, v.13, no.4, 1962, 605-607

TEXT: It is noted that observations of crystal faces are usually carried out with complicated instruments with a resolution of 10 Å or better. Although the microscope EM-5 has a nominal resolution of 20 Å, its electron-optical parameters are such that it is possible, in fact, to obtain a resolution of the order of 10 Å. In view of this, the authors decided to use it to repeat the observations of Menter (Proc. Roy. Soc., A236, 119, 1956) and Bassett, Menter and Pashly (Proc. Roy. Soc., A246, 345, 1958; J. Phot. Sci., 7, 60, 1959). The condensing and intermediate lenses incorporated a fixed magnetic stigmator from the EM-7 microscope. The magnification was X5500 or X6700 at an accelerating voltage of 60 kV. A figure is reproduced showing the micrograph of a copper phthalocyanin crystal in which the (001) planes, which are at a distance of 12.6 Å, are clearly resolved.

Card 1/2

Observation of the crystal lattice ... S/051/62/013/004/019/023
E032/E514

The (201) planes, 9.8 Å apart, are also clearly resolved in another photograph. The fact that the EM-5 is capable of a 10-12 Å resolution is therefore confirmed. There are 3 figures and 1 table.

SUBMITTED: May 16, 1962

Card 2/2